

1648



1600
 1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/641,528A

DATE: 01/17/2003

TIME: 10:57:53

Input Set : N:\Crf4\01162003\I641528.raw

Output Set: N:\CRF4\01172003\I641528A.raw

RECEIVED

JAN 21 2003

TECH CENTER 1600/2900

P-6
 ENTERED

1 <110> APPLICANT: Sette, Alessandro
 2 Sidney, John
 3 Southwood, Scott
 4 Chesnut, Robert
 5 Celis, Esteban
 6 Grey, Howard
 7 <120> TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS
 8 USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
 9 <130> FILE REFERENCE: 2060.0100001
 10 <140> CURRENT APPLICATION NUMBER: US/09/641,528A
 11 <141> CURRENT FILING DATE: 2000-08-15
 12 <150> PRIOR APPLICATION NUMBER: US 60/172,705
 13 <151> PRIOR FILING DATE: 1999-12-10
 14 <160> NUMBER OF SEQ ID NOS: 51504
 15 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 19 <212> TYPE: PRT
 20 <213> ORGANISM: Artificial Sequence
 21 <220> FEATURE:
 22 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
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 25 1 5 10
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 29 <212> TYPE: PRT
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 34 Ala Thr Val Pro Cys Trp Asn Tyr
 35 1 5
 37 <210> SEQ ID NO: 3
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 41 <220> FEATURE:
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 44 Ala Val Gln Val Leu Lys Arg Lys Tyr
 45 1 5
 47 <210> SEQ ID NO: 4

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Input Set : N:\Crf4\01162003\I641528.raw

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61 <220> FEATURE:
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71 <220> FEATURE:
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84 Asp Ser Glu Ile Ala Tyr Lys Tyr
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91 <220> FEATURE:
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95 1 5 10
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99 <212> TYPE: PRT
100 <213> ORGANISM: Artificial Sequence
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Input Set : N:\CrF4\01162003\I641528.raw

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154 Glu Leu Ser Gln Met Val Gln Trp Ala Tyr
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Input Set : N:\CrF4\01162003\I641528.raw

Output Set: N:\CRF4\01172003\I641528A.raw

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184 Glu Val Tyr Gly Asp Thr Pro Glu Trp
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205 1 5
207 <210> SEQ ID NO: 20
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Output Set: N:\CRF4\01172003\I641528A.raw

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211 <220> FEATURE:
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221 <220> FEATURE:
222 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
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224     Phe Leu Thr Ala Leu Lys Arg Phe
225         1             5
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228 <211> LENGTH: 11
229 <212> TYPE: PRT
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231 <220> FEATURE:
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235         1             5             10
237 <210> SEQ ID NO: 23
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239 <212> TYPE: PRT
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244     Phe Ser Glu Leu Val Arg Pro Phe
245         1             5
247 <210> SEQ ID NO: 24
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249 <212> TYPE: PRT
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251 <220> FEATURE:
252 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
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255         1             5
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259 <212> TYPE: PRT
260 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
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264     Phe Val Asn Ser Lys Ser His Phe

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/641,528A

DATE: 01/17/2003
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Input Set : N:\Crf4\01162003\I641528.raw
Output Set: N:\CRF4\01172003\I641528A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:46478; Xaa Pos. 1,2,3
Seq#:46515; Xaa Pos. 1,2,3
Seq#:46537; Xaa Pos. 1,2,3
Seq#:46552; Xaa Pos. 1,2,3
Seq#:46553; Xaa Pos. 1
Seq#:46639; Xaa Pos. 1,2,3
Seq#:46845; Xaa Pos. 1,2
Seq#:46896; Xaa Pos. 1,2,3
Seq#:46912; Xaa Pos. 1
Seq#:47013; Xaa Pos. 1,2,3
Seq#:47014; Xaa Pos. 1,2
Seq#:47238; Xaa Pos. 1,2,3
Seq#:47239; Xaa Pos. 1,2
Seq#:47282; Xaa Pos. 1,2,3
Seq#:47309; Xaa Pos. 1,2,3
Seq#:47324; Xaa Pos. 1,2,3
Seq#:47399; Xaa Pos. 1,2,3
Seq#:47565; Xaa Pos. 1,2,3
Seq#:47618; Xaa Pos. 1,2,3
Seq#:47619; Xaa Pos. 1,2
Seq#:47620; Xaa Pos. 1
Seq#:47675; Xaa Pos. 1,2,3
Seq#:47690; Xaa Pos. 1,2,3
Seq#:47770; Xaa Pos. 1,2,3
Seq#:47938; Xaa Pos. 1,2,3
Seq#:48003; Xaa Pos. 1,2,3
Seq#:48018; Xaa Pos. 1,2,3
Seq#:48110; Xaa Pos. 1,2,3
Seq#:48111; Xaa Pos. 1,2
Seq#:48182; Xaa Pos. 1,2
Seq#:48242; Xaa Pos. 1,2,3
Seq#:48259; Xaa Pos. 1,2,3
Seq#:48260; Xaa Pos. 1
Seq#:48349; Xaa Pos. 1,2,3
Seq#:48350; Xaa Pos. 1,2
Seq#:51503; Xaa Pos. 1,5,6,8,9
Seq#:51504; Xaa Pos. 1,3,5,6,7

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 7

VERIFICATION SUMMARY

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Input Set : N:\Crf4\01162003\I641528.raw

Output Set: N:\CRF4\01172003\I641528A.raw

L:464798 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46478 after pos.:0
L:465172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46515 after pos.:0
L:465396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46537 after pos.:0
L:465550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46552 after pos.:0
L:465564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46553 after pos.:0
L:466428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46639 after pos.:0
L:468492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46845 after pos.:0
L:469006 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46896 after pos.:0
L:469170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46912 after pos.:0
L:470184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47013 after pos.:0
L:470198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47014 after pos.:0
L:472442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47238 after pos.:0
L:472456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47239 after pos.:0
L:472890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47282 after pos.:0
L:473164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47309 after pos.:0
L:473318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47324 after pos.:0
L:474072 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47399 after pos.:0
L:475736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47565 after pos.:0
L:476270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47618 after pos.:0
L:476284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47619 after pos.:0
L:476298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47620 after pos.:0
L:476852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47675 after pos.:0
L:477006 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47690 after pos.:0
L:477810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47770 after pos.:0
L:479494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47938 after pos.:0
L:480148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48003 after pos.:0
L:480302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48018 after pos.:0
L:481226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48110 after pos.:0
L:481240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48111 after pos.:0
L:481954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48182 after pos.:0
L:482558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48242 after pos.:0
L:482732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48259 after pos.:0
L:482746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48260 after pos.:0
L:483640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48349 after pos.:0
L:483654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48350 after pos.:0
L:515198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51503 after pos.:0
L:515216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51504 after pos.:0